selects said power source when a voltage to be supplied from said power source is higher than said predetermined value; or

said second switch circuit

connects said power source line and said constant-current circuit when a voltage to be supplied from said power source is equal to or lower than a predetermined value, and

connects said power source line and said resistor when a voltage to be supplied from said power source is higher than said predetermined value.

REMARKS

Applicant has amended claims 1, 2, 3, 4 and 8. Applicant respectfully submits that the amendments to the claims are supported by the application as originally filed and do not contain any new matter. Accordingly, the Office Action will be discussed in terms of the claims as amended.

The Examiner has rejected claims 1-13 under 35 USC 112, second paragraph, as being indefinite. In view of the amendments to the claims, Applicant respectfully submits that claims 1-13 comply with 35 USC 112, second paragraph.

The Examiner has indicated that claims 1-13 contain allowable subject matter and would be allowed if rewritten to overcome the rejection under 35 USC 112, second paragraph. In view of the above, Applicant respectfully submits that claims 1-13 are now allowable and Applicant accepts these allowed claims.

Attached hereto is a marked-up version of the changes made to the claims by the current amendment. The attached page is captioned "Version with markings to show changes made."

In view of the above, therefore, it is respectfully requested that this Amendment be entered, favorably considered and the case passed to issue.

Please charge any additional costs incurred by or in order to implement this Amendment or required by any requests for extensions of time to KODA & ANDROLIA DEPOSIT ACCOUNT NO. 11-1445.

Respectfully submitted,

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TECHNOLOGY CENTER 2800

Application No. 09/762,846

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE CLAIMS:

Claim 1 (twice amended) has been amended as follows:

1. (Thrice Amended) A piezo-oscillator comprising:

an oscillator circuit including a piezo-vibrator and an amplifier circuit, [one terminal of] said piezo-vibrator being connected to an input [terminal] of said amplifier circuit [and another terminal of said piezo-vibrator being grounded via a capacitance element] so that a frequency that is based upon resonance frequency of said piezo-vibrator is outputted from an output of said amplifier circuit,

a constant-voltage circuit connected to a power source, and

a first switch circuit that connects, by selection, either one of said power source and said constant-voltage circuit to said amplifier circuit; wherein

said first switch circuit

selects said constant-voltage circuit when a voltage to be supplied from said power source is equal to or lower than a predetermined value and

selects said power source when a voltage to be supplied from said power source is higher than said predetermined value.

Claim 2 (twice amended) has been amended as follows:

2. (Thrice Amended) A piezo-oscillator comprising:

an oscillator circuit including a piezo-vibrator and an amplifier circuit, [one terminal of] said piezo-vibrator being connected to an input [terminal] of said amplifier circuit [and another terminal of said piezo-vibrator being grounded via a capacitance element] so that a frequency that is based upon resonance frequency of said piezo-vibrator is outputted from an output of said amplifier circuit,

a second switch circuit connected to a power source line for said amplifier circuit,

a constant-current circuit connected to said second switch circuit, and

a resistor connected to said second switch circuit; wherein

said second switch circuit

connects said power source line and said constant-current circuit when a voltage to be supplied from a power source is equal to or lower than a predetermined value, and

connects said power source line and said resistor when a voltage to be supplied from said power source is higher than said predetermined value.

Claim 3 (twice amended) has been amended as follows:

3. (Thrice Amended) A piezo-oscillator comprising:

an oscillator circuit including a piezo-vibrator and an amplifier circuit, [one terminal of] said piezo-vibrator being connected to an input [terminal] of said amplifier circuit [and another terminal of said piezo-vibrator being grounded via a capacitance element] so that a frequency that is based upon resonance frequency of said piezo-vibrator is outputted from an output of said amplifier circuit,

a constant-voltage circuit connected to a power source, and

a frequency control voltage section connected to said piezo-vibrator, and

a first switch circuit that connects, by selection, either one of said power source and said constant-voltage circuit to said amplifier circuit; wherein

said first switch circuit

selects said constant-voltage circuit when a voltage to be supplied to said frequency control voltage section is equal to or lower than a predetermined value, and

selects said power source when a voltage to be supplied to said frequency control voltage section is higher than said predetermined value.

Claim 4 (twice amended) has been amended as follows:

4. (Thrice Amended) A piezo-oscillator comprising:

an oscillator circuit including a piezo-vibrator and an amplifier circuit, [one terminal of] said piezo-vibrator being connected to an input [terminal] of said amplifier circuit [and another terminal of said piezo-vibrator being grounded via a capacitance element] so that a frequency that is based upon resonance frequency of said piezo-vibrator is outputted from an output of said amplifier circuit,

a frequency control voltage section connected to said piezo-vibrator,

a second switch circuit connected to a power source line of said oscillator circuit,

a constant-current circuit connected to said second switch circuit, and

a resistor connected to said second switch circuit; wherein

said second switch circuit

connects said power source line and said constant-current circuit when a voltage to be supplied to said frequency control voltage section is equal to or lower than a predetermined value, and

connects said power source line and said resistor when a voltage to be supplied to said frequency control voltage section is higher than said predetermined value.

Claim 8 (twice amended) has been amended as follows:

8. (Thrice Amended) A piezo-oscillator comprising:

an oscillator circuit including a piezo-vibrator and an amplifier circuit, [one terminal of] said piezo-vibrator being connected to an input [terminal] of said amplifier circuit [and another terminal of said piezo-vibrator being grounded via a capacitance element] so that a frequency that is based upon resonance frequency of said piezo-vibrator is outputted from an output of said amplifier circuit,

a constant-voltage circuit connected to a power source,

a first switch circuit or a second switch circuit, said first switch circuit connecting, by selection, either one of said power source and said constant-voltage circuit to said amplifier circuit, and said second switch circuit being connected to a power source line for said oscillator circuit,

a constant-current circuit connected to said second switch circuit, and

a resistor connected to said second switch circuit; wherein

said first switch circuit

selects said constant-voltage circuit when a voltage to be supplied from said power source is equal to or lower than a predetermined value, and

selects said power source when a voltage to be supplied from said power source is higher than said predetermined value; or

said second switch circuit

connects said power source line and said constant-current circuit when a voltage to be supplied from said power source is equal to or lower than a predetermined value, and

connects said power source line and said resistor when a voltage to be supplied from said power source is higher than said predetermined value.